

## EDITED KSA LISTING

### **CLASS: Associate Civil Engineer**

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*NOTE: Each position within this classification may be required to possess all or some of these knowledge, skills or abilities.*

	<b>Knowledge of:</b>
<b>K1</b>	Comprehensive knowledge of the principles and practices of civil engineering in order to perform the various job functions (e.g. design, construction support, design review, etc.).
<b>K2</b>	General knowledge of surveying as it applies to topographic maps and elevation studies.
<b>K3</b>	<b>General knowledge of hydraulics as it applies to sewer and water distribution systems design.</b>
<b>K4</b>	General knowledge of stress analysis, statics, strength, properties, and uses of the materials of engineering construction and <b>design of structures of average complexity</b> as it applies to a wide variety of civil and structural related projects.
<b>K5</b>	<b>General knowledge of hydrology as it applies to site drainage, site grading and flood control.</b>
<b>K6</b>	General knowledge of engineering mathematics in order to perform the various job functions (e.g. design, construction support, design review, etc.).
<b>K7</b>	General knowledge of valuation methods, procedure, and terminology in order to perform the various job functions (e.g. design, construction support, design review, etc.).

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	<b>Skill to:</b>
<b>S1</b>	Perform design, mapping and drafting to provide information and direction for a wide variety of civil and structural related projects.
<b>S2</b>	Prepare detailed plans and specifications to provide information and direction for a wide variety of civil and structural related projects.
<b>S3</b>	<b>Inspect construction projects to ensure quality control.</b>
<b>S4</b>	Analyze situations accurately to develop and adopt an effective course of action.
<b>S5</b>	<b>Use standard civil engineering instruments and equipment in order to perform a wide variety of functions required for the job.</b>
<b>S6</b>	<b>Read, interpret, and analyze engineering reports, plans, and specifications to provide direction and information on a wide variety of civil and structural related projects.</b>
<b>S7</b>	Perform technical research work and make detailed analysis to provide direction and information on a wide variety of civil and structural related projects.
<b>S8</b>	Prepares and maintains various engineering records, reports, notes, data, etc. to provide direction, information and recommendations on a wide variety of civil and structural related projects.
<b>S9</b>	<b>Effectively apply interpersonal and communication techniques to transfer information and secure and maintain the respect and cooperation of others.</b>